

APPLICATION

The Caviwave Sonic Cleaner is designed to thoroughly wash (remove tissue, blood and other contaminants) instruments prior to final disinfection and sterilization. The Caviwave Ultrasonic System's compact design makes it suitable for use in the Operating Room, Central Supply or other high volume area to process pre-cleaned instruments.

DESCRIPTION

The Caviwave Ultrasonic Cleaning System Sonic Cleaner is a freestanding instrument washer supplied in a compact stainless-steel cabinet. The Sonic Cleaner contains all needed components to effectively clean (utilizing ultrasonic cavitation passing through a detergent-balanced wash solution) surgical instruments prior to disinfection and sterilization.

The Sonic Cleaner is equipped with an automatic opening lid and load elevator for easy and safe instrument loading.



(Typical only - some details may vary.)

STANDARDS

The Caviwave Ultrasonic Cleaning System meets the applicable requirements of the following standards:

- **EMC Directive 89/336/EEC, 92/31/EEC, 93/68/EEC.**
- **Low Voltage Directive 73/23/EEC, 93/68/EE.**
- **ETL Listed.**
- **Underwriters Laboratories (UL) Standard 61010-1.**
- **Underwriters Laboratories (UL) Standard 61010A-2-010.**
- **Canadian Standards Association (CSA) Standard C22.2 No. 61010-1.**
- **Canadian Standards Association (CSA) Standard C22.2 No. 61010-2-010.**

FEATURES

The Caviwave Ultrasonic Cleaning System Sonic Cleaner is wired for operation on either 208 V (60 Hz, three phase or single phase), or 240 V, 60 Hz, single phase voltage. Unit can be configured for single phase. STERIS supplies all components necessary to obtain a complete working unit ready for (but not including) installation and connection to facility service lines. The Sonic Cleaner includes the following features:

Optimum Ultrasonic Cleaning Power is ensured by constant power output generators operating at 132 kHz and complemented with complex resonance frequencies to ensure lock-box cleaning efficiency. The generators are mounted with individual slide out modules for ease of service. Also, patented ceramically-enhanced transducer modules are bonded to the wash tank providing maximum energy transmission for instrument cleaning.

Automatic Lid and E-Z Load Tray Elevator improve safety and increase instrument loading ease. E-Z Load Tray Elevator is positioned at a convenient working height and is oriented laterally for ease of loading heavy instrument trays.

Port Flushing System processes up to six rigid lumened surgical devices with both ultrasonic energy and internal flushing.

The Selections Checked Below Apply To This Equipment

VOLTAGES

- ☐ 208 V, 60 Hz, 3 ph (Standard)
- ☐ 208 V, 60 Hz, 1 ph
- ☐ 240 V, 60 Hz, 1 ph

ADDITIONAL TANK SIZES

- ☐ 11-gal (42 L) Tank
- ☐ 15-gal (57 L) Tank
- ☐ 20-gal (76 L) Tank

ACCESSORIES

- ☐ Seismic Design
- ☐ Additional Port Flushing Kit
- ☐ Additional Port Flushing Tray
 - ☐ 11-gal (42 L) Tray
 - ☐ 15-gal (57 L) Tray
 - ☐ 20-gal (76 L) Tray

Item _____

Location(s) _____

Illuminated Main Controls include power ON/OFF, automatic fill, drain alert with cycle counter, adjustable wash cycle timer, drain actuator and lid actuator.

Locking Caster Wheels are supplied for ease of Caviwave Ultrasonic Cleaning System Sonic Cleaner movement. The four caster wheels add 2" (51 mm) to total Sonic Cleaner height.

Large Capacity Process Tank accepts a large variety of instrument trays. One instrument tray is included with each unit. Tank weight capacity is as follows:

- **11-gal (42 L) tank holds 22 lb (10 kg) of instruments.**
- **15-gal (57 L) tank holds 22 lb (10 kg) of instruments.**
- **20-gal (76 L) tank holds 35 lb (16 kg) of instruments.**

Automatic Pushbutton Ultrasonic Drain with drain indicator light and built-in counter to provide wash cycle number tracking, alerts operator when ultrasonic tank needs drained. Adjustable cycle drain count preprogrammed to 12 cycles.

Toe Touch Control lowers the instruments into the cleaning solution and starts the processing cycle. When cycle is complete, the lid automatically opens and instrument tray is raised to unload position.

Safety Interlocks and Controls are provided to ensure complete operator safety.

Front and Side Service Access Panels are supplied on the unit for ease of any maintenance procedures. Access doors are scratch and dent resistant and sound dampened. Front doors have automatic power cut-off feature to protect components when doors open.

PREVENTIVE MAINTENANCE

Customers are encouraged to contact STERIS concerning our annual maintenance program. Under the terms of the program, preventive maintenance, adjustments and replacement of worn parts are provided on a scheduled basis to help ensure optimal equipment performance and help minimize untimely or costly schedule interruptions. STERIS maintains a worldwide staff of

well-equipped, factory-trained technicians to provide these services, as well as on-site installation, training and expert repair services. Contact STERIS for details.

NOTES

1. Pipe sizes shown indicate terminal outlets only. Building service lines (not provided by STERIS) must supply the specified pressures and flow rates.
2. STERIS recommends that a dedicated, grounded electrical circuit be provided for each unit. Extension cord and plug use is not recommended.
3. Approximate net weight:
 - » Model CR101: 425 lb (193 kg).
 - » Model CR115: 425 lb (193 kg).
 - » Model CR12 : 500 lb (227 kg).
4. Sonic Cleaner must be mounted on a hard, level surface.
5. Caviwave Sonic Cleaner is manufactured for STERIS by Crest Ultrasonics.

UTILITY REQUIREMENTS

Refer to equipment drawing for installation details and specifications.

Electrical

208 or 240 V, 60 Hz, 1-Phase (4 Wire) or 3-Phase (5 Wires including Neutral and Ground)

Drain

1-1/4" NPT CPVC Male Slip (trap and waste lines are not provided by STERIS).

Hot Water

1/2" NPT CPVC Male Slip (15-50 psi); 100-120°F (38-49°C).

The base language of this document is ENGLISH. Any translations must be made from the base language document.

CUSTOMER IS RESPONSIBLE FOR COMPLIANCE WITH APPLICABLE LOCAL AND NATIONAL CODES AND

TECHNICAL DATA

MODEL	POWER REQUIREMENTS (Amps)†			SONIC POWER (Watts)	SHIP WEIGHT	TANK FLUID CAPACITY	HEAT LOSS (BTU)	TRAY SIZE L x W x D*
	208 V		240 V					
	1 PH	3 PH	1 PH					
CR101	13.2	9.9	12.9	750	571 lb (259 kg)	11 gal (42 L)	210	20 x 10-1/2 x 3-1/2" (508 x 267 x 89 mm)
CR115	13.2	9.9	12.9	1000	699 lb (317 kg)	15 gal (57 L)	225	20 x 13-1/2 x 3-1/2" (508 x 343 x 89 mm)
CR12	19.6	16.3	19.8	1000	815 lb (370 kg)	20 gal (76 L)	275	24 x 13-1/2 x 3-1/2" (610 x 343 x 89 mm)

*Maximum tray size

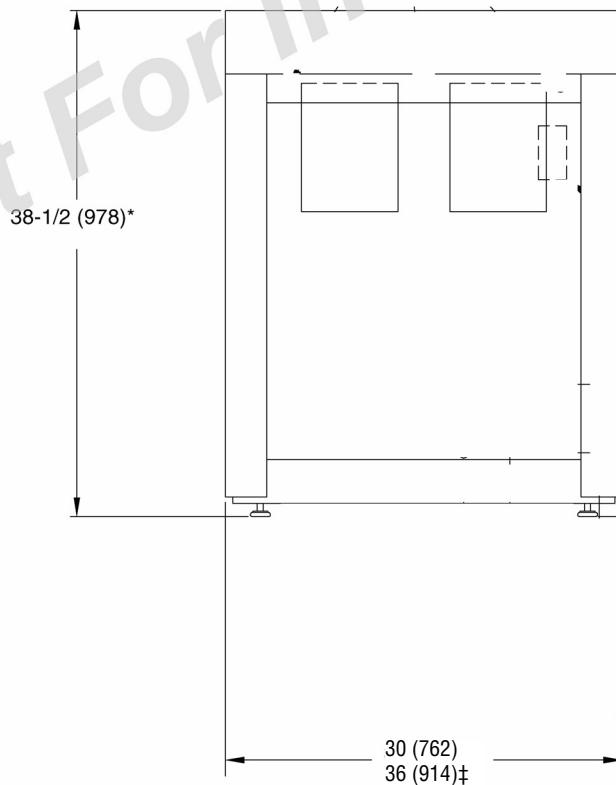
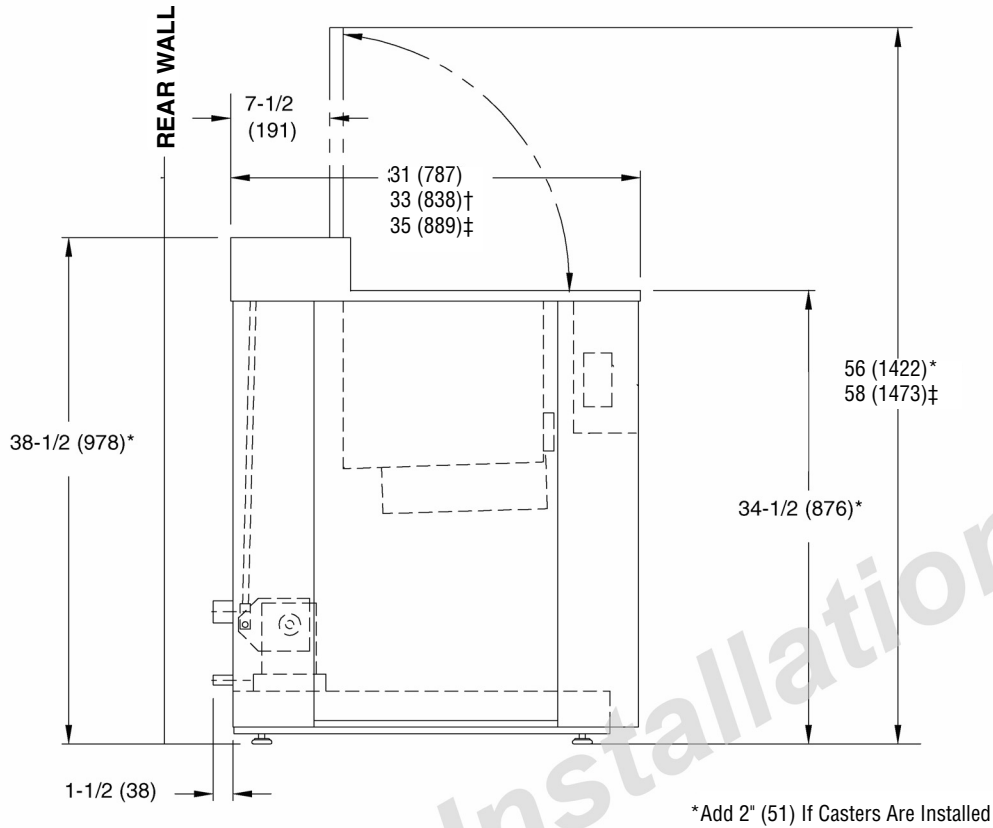
†Amp value is actual current drain. Disconnect should be at least 25% more.

See **Technical Data**.

Request Equipment Drawings for Installation Details

Dimensions are typical –
drawing is not to scale.

Dimensions are inches (mm)



[†] = 15 gal
[‡] = 20 gal

For Further Information, contact:

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